

CLAIMS

1. Device for the selective metering of seed intended
essentially for sowing and/or reseeding soils and
of additives intended essentially for improving
and/or treating the soils;
the said device comprising essentially:
a) a hopper (1) intended to contain the said seed
or the said additives;
b) a unit for the selective metering (2, 3, 4) of
the seed or of the additives originating from
the said hopper;
c) means (5, 6) of transferring the seed or the
additives originating from the said metering
unit, into furrows created in the soil by means
of a scarification unit provided with a
plurality of discs (7);
characterized in that the unit for the selective
metering of the seed and additives originating
from the hopper comprises in combination:
a) a selective metering roll (2) comprising,
longitudinally, a plurality of successive zones
(Z) each subdivided into at least two zones
(Z1) and (Z2) provided with means (2A), (2B)
and (2C) suitable for metering the seed or the
additives according to their particle size;
b) a means (3) comprising a plurality of openings
(3A), separated by solid parts (3B), suitable,
by the lateral movement of the said means (3),
for making the seed or additives originating
from the hopper (1) communicate either with the
zone (Z1), or with the zone (Z2);
c) a means (4) comprising a plurality of openings
(4A), separated by solid parts (4B), suitable,
by the lateral movement of the said means (4),
for blocking off, to a greater or lesser
extent, the openings (3A) of the means (3).

2. Device according to Claim 1, characterized in that the means (2A) consists of axial flutes (2A) disposed on the periphery of the entire width of the zone (Z1).
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3. Device according to Claim 1, characterized in that the means (2B) consists of the smooth external casing, of the roll (2), which occupies a part of the width of the zone (Z2) and in that at least 10 the part of the said roll concerned by the said casing is made out of dielectric material charged with electric particles by the rubbing, during the rotation of the roll (2), of a means (8), of the sweeping brush type.
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4. Device according to any of Claims 1 and 3, characterized in that the means (2C) consists of spot facings formed on the periphery of the part of the width of the zone (Z2) not occupied by the 20 means (2B).
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5. Device according to Claim 1, characterized in that the means for the transfer of the seed or of the additives originating from the metering unit, into the furrows made in the soil by the scarification unit, consist of a funnel (5) fitted with a tube (5A) linked to a hollow sowing finger (6).
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6. Device according to Claim 5, characterized in that each hollow sowing finger (6) comprises a hollow sliding extension the travel of which is suitable to enable its bottom extremity to transfer the seed or the additives as near as possible to the furrows.
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7. Device according to Claim 5, characterized in that each hollow sowing finger (6) comprises an arm (9) suitable for parting the grass on either side of the furrows.

8. Device according to Claim 5, characterized in that each hollow sowing finger (6) comprises sliding capillary tubes suitable for transferring liquid additives as close as possible to the furrows.
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9. Device according to Claim 8, characterized in that the capillary tubes are supplied by solenoid valves controlled by a throughput computer and a
10 distributor controlled by forward travel.
10. Device according to Claim 1, characterized in that the speed of rotation of the distribution roll (2) is controlled by the speed of forward travel of
15 the machine carrying and pulling the set of elements constituting the selective metering device.
11. Device according to any one of the preceding
20 claims, characterized in that the set of elements constituting the metering device is linked to the carrying and pulling machine by means of a hydropneumatic suspension.